

TITAN Edge Bridge

LOW LATENCY 4K PROFESSIONAL BASEBAND CONVERTER

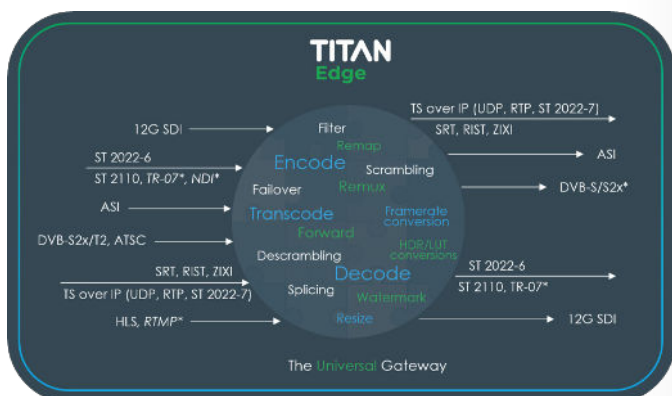
TITAN Edge Bridge is a multi-channels base-band forwarder, with raw video and audio processing via industry-grade input and output support.

Based on TITAN's software modular suite and leveraging full COTS approach, TITAN Edge is a versatile solution for operations running on-premises, off-premises or a combination of the two: High density, 4K, content processing and format conversions.

Implementing state-of-the-art SMPTE 2022/2110 standards, TITAN Edge Bridge is the first professional cloud native low latency solution enabling full IP video operations in the cloud.

In addition, TITAN Edge Bridge features interfaces to standard PCIe boards to support any type of use-case and build the most adapted and efficient solution for on-premises reception.

The TITAN Edge Bridge features transport layer conversions, premium framerate conversion based on motion estimation, HDR/LUT conversions, audio composition and content protection.



Key Features

- SD/HD/UHD
- SDI to SMPTE 2110 conversions
- JPEG-XS encode & decode
- Low latency processing
- Confidence Audio / Video input monitoring
- Motion based Framerate conversion
- HDR/LUT conversions
- Audio composition and shuffling
- Contribution over Internet support
- Content protection
- On-premises/cloud solution

Value-Added Benefits



Lower OPEX

High density with high quality of service



Modularity

Full flexibility and scalability



Software based

Future-proof and high ROI



Industry Grade

Smooth operations based on proven interoperabilities

Video

Video Confidence monitoring on front panel and web UI
Framerate conversion (Motion compensation)
Emulation, Logo insertion & scrolling text
Upscale & Downscale
Watermarking & fingerprinting
HDR and LUT conversion

Audio

AES-302M pass-through
Dolby AC3/AC3+/AC4 encode, decode.
Dolby-E decode/transcode
Audio/Video delay +/- 500ms
Up to 16 mono channels on SDI
Audio Confidence monitoring on web UI

I/O

Inputs

Up to 12G-SDI input
SMPTE 2022-6 and SMPTE 2110 input
SMPTE 2022-7 seamless switching
JPEG-XS input in SMPTE 2110-22 and TR-07
NDI input*

Dual input & Input failover

Outputs

Up to 12G-SDI output
2 independent outputs per channels
SMPTE 2022-6 and SMPTE 2110 output
Mirrored output for SMPTE 2022-7
JPEG-XS output on SMPTE 2110-22 and TR-07
SMPTE 2110 Control with AMWA NMOS IS-04 and IS-05**

System

Secured Web User Interface for system/channels management
Mosaic and dedicated monitoring Web User Interface
In-band and Out-Of-Band Management
Integrated Firewall per interface
NTP and PTP support, DNS resolution
HTTPS REST API (documented through Open API v3.0)
JSON Configuration export/import
SNMP (MIB v2c) with remote SNMP supervisor (alarms & traps)
64 Presets configurations memory
Remote Syslog, VPN support, IGMPv3 support
User Management/scopes and LDAP support
INTEL & AMD CPU supports
BIOS & UEFI boot system support

Front Panel

For Server DELL XR2, R640, R6515
Confidence Audio/video monitoring with LCD Menus
6-keys keyboard for input & navigation
TS capture download from USB slot *
First ISO install from USB
Serviceable Air Filters

Rear Panel

Minimum of 2 x 10GE - Refer to the server used
2 x QSFP28 per Mellanox board (25Gbps) ***
Up to 8 x 3G-SDI (SMPTE-424M) ***
Up to 2 x 12G-SDI (SMPTE-2082) ***
Up to 16 audio embedded mono channels per SDI
Up to 2 AES/EBU & Analog input and output
Genlock connectors - BlackBurst / TriLevel ***

Content Protection

Protection

Fingerprinting: CAS controlled, On Screen Display
Watermarking: Nagra NexGuard Verimatrix
StreamControl
Viaccess-Orca WAO, Irdeto TraceMark

* Contact your sales representative for the detailed list of features

** Contact factory for availability

*** Refer to the PCIe board used